

ESTABLISHING A TICK REDUCTION PROGRAM **IN A 4,000 RESIDENT RURAL TOWNSHIP**

- **DOCUMENT THE NEED FOR THE INITIATIVE**
- INVOLVE APPROPRIATE ORGANIZATIONS
- PUT IN PLACE RESEARCH EFFORT – DETERMINE APPROACH
- RECRUIT ADVISORS, VOLUNTEERS & ESTABLISH TASK FORCES
- RESIDENT AWARENESS, INVOLVEMENT AND EDUCATION
- ORGANIZING THE EFFORT ACROSS THE TOWNSHIP, POLICIES AND RULES
- LONGTERM

Online Lyme Survey Form

LYME SURVEY FORM 2011

- **Quick and Easy**
- **Room for as much input as a household wishes to give (Detailed accounts of up to 11 Lyme Incidents per household – the maximum we have received so far)**
- **Results automatically recorded in spreadsheet which I can download from Google Forms**
- **I can edit the spreadsheet (for example to add a LWMU column)**

SPREADSHEET

- Introductory questions

Your Name	How many people are in your household?	How many or your household members have had Lyme?	Street Address	LWM U	Email Address	Will you help with the Public Information and Phone Survey? Enter YES or NO	Will you help with our Tick Measurement program? Enter YES or NO	Will you allow hunting on your property? Enter YES or NO	If you already have hunters on your property, please list their names below.	If you are a hunter and are interested in hunting in the Township please enter YES below	Enter the total number of Lyme Incidents that your household has experienced
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- So far about 150 households have responded
- About 400 individuals
- About 130 have had Lyme
- There have been approximately 225 Lyme Incidents

SYSTEMATIC SURVEY IMPLEMENTATION DRIVE

Residents and Households in North section of Township

Spreadsheets

- Resident Spreadsheet (683) – all residents, phone, email contacts
- Household Spreadsheet (296) – one entry per household
 - Marker for households who have already filled out the form
 - Marker for those who have volunteered to help get others to fill out form
 - 44 respondent households
 - 241 left
 - Household sheet continually updated; avoids repeating contacts
- Systematic drive to get people to fill out the form begins next week

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INVOLVE APPROPRIATE ORGANIZATIONS

- TOWNSHIP ADMINISTRATION
- CIVIC ASSOCIATION
- PENNSYLVANIA GAME COMMISSION
- USDA
- LDASEPA
- UNIVERSITIES

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APPROACHES CONSIDERED

- Reduction of the Deer Population
- Damminix® Tick Tubes
- Personal Protection
- Spraying Property with Pesticides
- 4 Poster Deer Feeders (Expensive)
- Bait Boxes (Unavailable?)
- Vaccination – Contraception (Not in PA)
- Fungus (Still in Research)
- Domesticated Fowl (Probably not effective)

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TASK FORCES

- **Public Information and Survey Task Force**
- **Deer Control Task Force**
- **Deer Population Measurement Task Force with USDA**
- **Tick Measurement Task Force**

TIM SMAIL - DEER CONTROL MANAGER

- **The Wildlife Society, Member; PA Chapter, Life Member**
- **Certified Weapons Instructor**
- **Boone and Crockett, Pope and Young, NA Shed Hunters Clubs**
- **National Muzzle Loading Rifle Association, Member, Official Measurer**
- **PA Game Commission Deer Management Working Group, Member**
- **PA Chapter Quality Deer Management Association, Founder, Director**
- **PA Wildlife Leadership Development Committee, Member**
- **PA Wildlife Leadership Academy, Advisory Board, Resident Instructor**
- **Chester County Deer Forum, Co-Founder, Co-Facilitator, Consultant**
- **Chester County Coordinator, Hunters Sharing the Harvest**

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RESIDENT AWARENESS, INVOLVEMENT AND **EDUCATION**

- Four updates per year in the Chadds Ford Times
- Presentations to the Supervisors and other local Organizations
- Invited Speakers
- Recruit volunteers, hunters and landowners
- Online Township Lyme Survey
- Website
- Mailings to all Township Residents
- Emailing
- Phoning
- Door-to-Door
- Respond in detail to all input

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TICK REDUCTION PROGRAM MILESTONES

DETAILED INFORMATION CAN BE FOUND AT:

<http://the.chaddsfordcivicassn.org/>

- **Program inception: January 2007**
- Research Study and quarterly Public Report in The Chadds Ford Times: 2007 – 2011
- Website Constructed for assembly of all Research and Data
- Lyme Lecture in Township Building: 2009
- Tick Reduction Task Force Report is approved by the Civic Association Board and forwarded to the Board of Supervisors: October 2009
- Presentation to the Board of Supervisors: January 2010
- **Approval of modified program by the Board of Supervisors: July 2010**

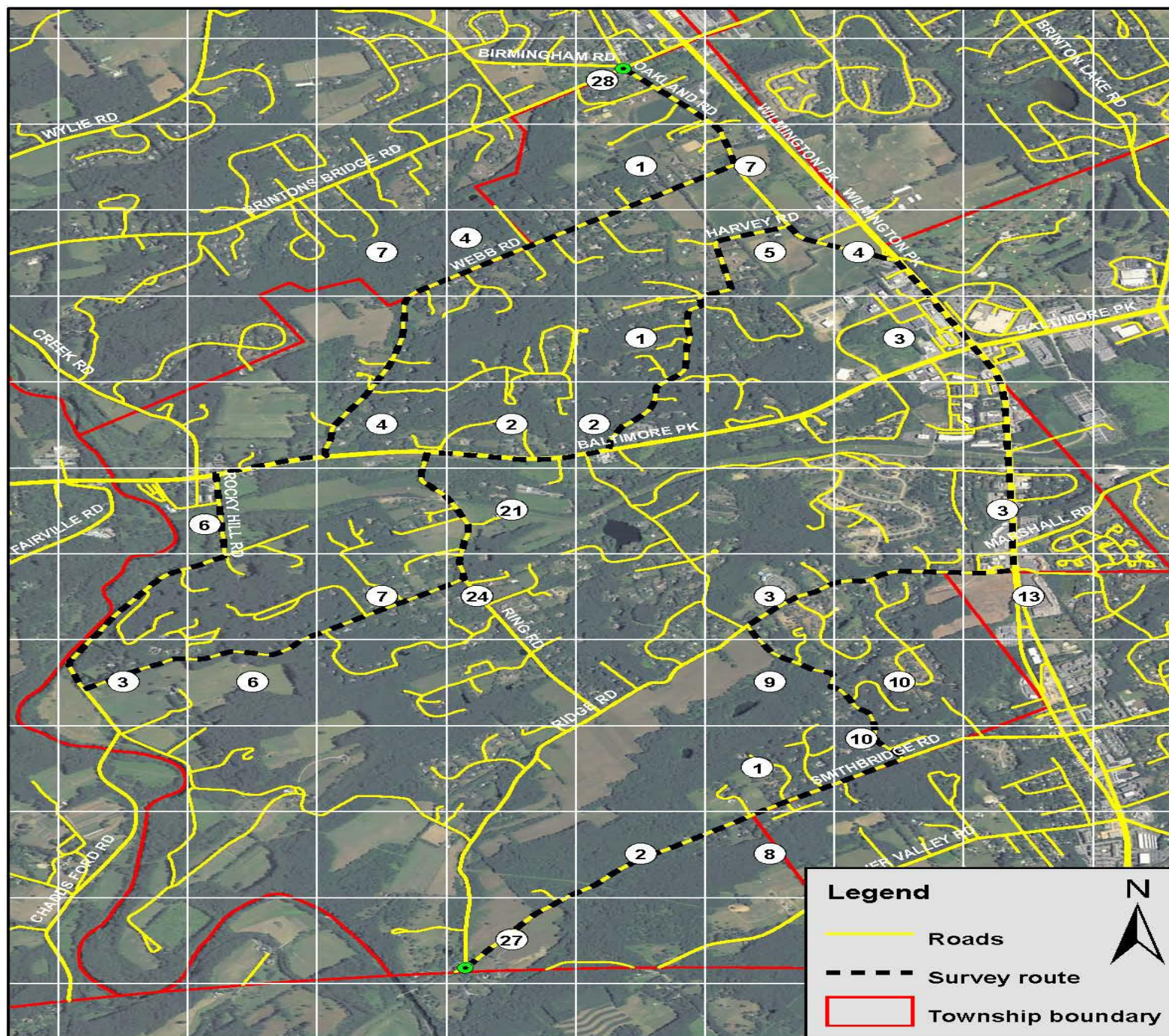
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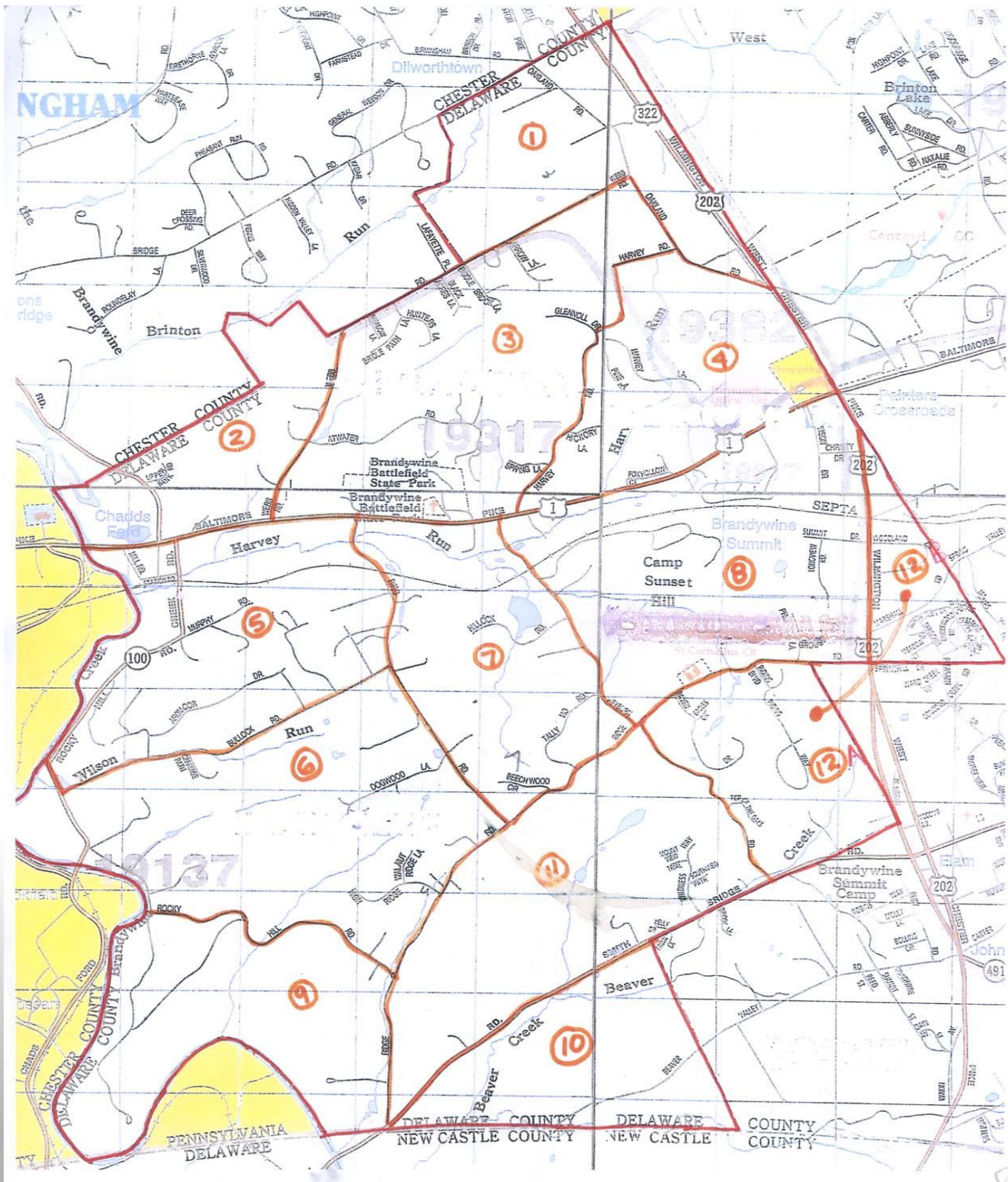
- Letter to residents outlining the reasons for the program and giving details about the upcoming Lyme Survey: August 2010
- **First Meeting of Deer Control Task Force: August 6, 2010**
- **Tim Smail agrees to act as Deer Control Manager for Chadds Ford: August 2010**
- **USDA Measures deer population in Chadds Ford (140/sq. mile)**
- Planning begins for sound Deer Control Management in the Township: August 2010
- Meeting for Landowners in Township Hall – room filled
- Meeting for Hunters in Township Hall – standing room only
- **Overall Plan developed**

Total number of deer observed in 100-acre quadrants (white grid = quadrants, numbers in white circles = total deer observed) during two white-tailed deer density surveys completed by USDA APHIS Wildlife Services in Chadds Ford Township, Delaware County, PA during



ORGANIZING THE EFFORT ACROSS THE TOWNSHIP

- **Master Landowner spreadsheet developed (Tax Lot Records + Registered Voters list)**
- **Township divided into 12 LWMU**
- **Master Hunter spreadsheet developed ~ 150 volunteers**
- **Voter list melded with Tax Lot listings. All lots assigned to their respective LWMUs**
- **Large scale Satellite Map generated from Google Earth**
- **Large scale Address map. Sub Division sections overlaid on Google Earth Map**
- **Permission Document developed to act as Agreement between Landowner and Hunter.**
- **Hunter Qualification procedures developed**
- **On line Lyme Survey and “Will Permit Hunters” form developed**
- **Initial focus Northern section of Township**
- **Volunteers (100), Hunter Managers (8) & Landowner Managers (8) identified**
- **Volunteers begin contacting residents to get more to fill out Survey**
- **First Hunter Qualification session completed**





Long Term

- Annual Lyme incidence Survey
- Annual Deer Population Survey
- Annual Tick Survey
- Reduce the Deer Population to as near to 10/sq. mile as we can get
- Fully educate and inform our Residents, especially:
 - Personal Protection
 - Spraying Property with Pesticides
- Make Damminix® Tick Tubes available for purchase at the Township Building
- Keep track of new information and approaches
- Encourage surrounding Townships to adopt similar approaches